

A Robot Arm Controller Design with Visual Discrimination Capability by Using Single-Chip

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ABSTRACT

Manufactory automation in medium and small size business is a very important development point in Taiwan. In order to improve the production cost and working environment, this proposal proposes a robot arm system with visual discrimination function by using single-chip 51 microprocessor controller. We expect that this research can not only provide a good study of system integration, but upgrade the production line of small size business currently in Taiwan. Visual system has very strong discrimination capability, with these, we strongly believe that the recognition efficiency and quality control of production line can be apparently increased. Besides, we also design a robot arm controller by using single-chip 51 microprocessor to integrate and verify the ideas we proposed.

Keywords : Visual Discrimination System ; Single-Chip Microprocessor Controller ; Visual Feature Extractio

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